

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P651692

Luminaire Tested: **GALN-SA1A-840-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651692
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1A-840-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3419.5 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

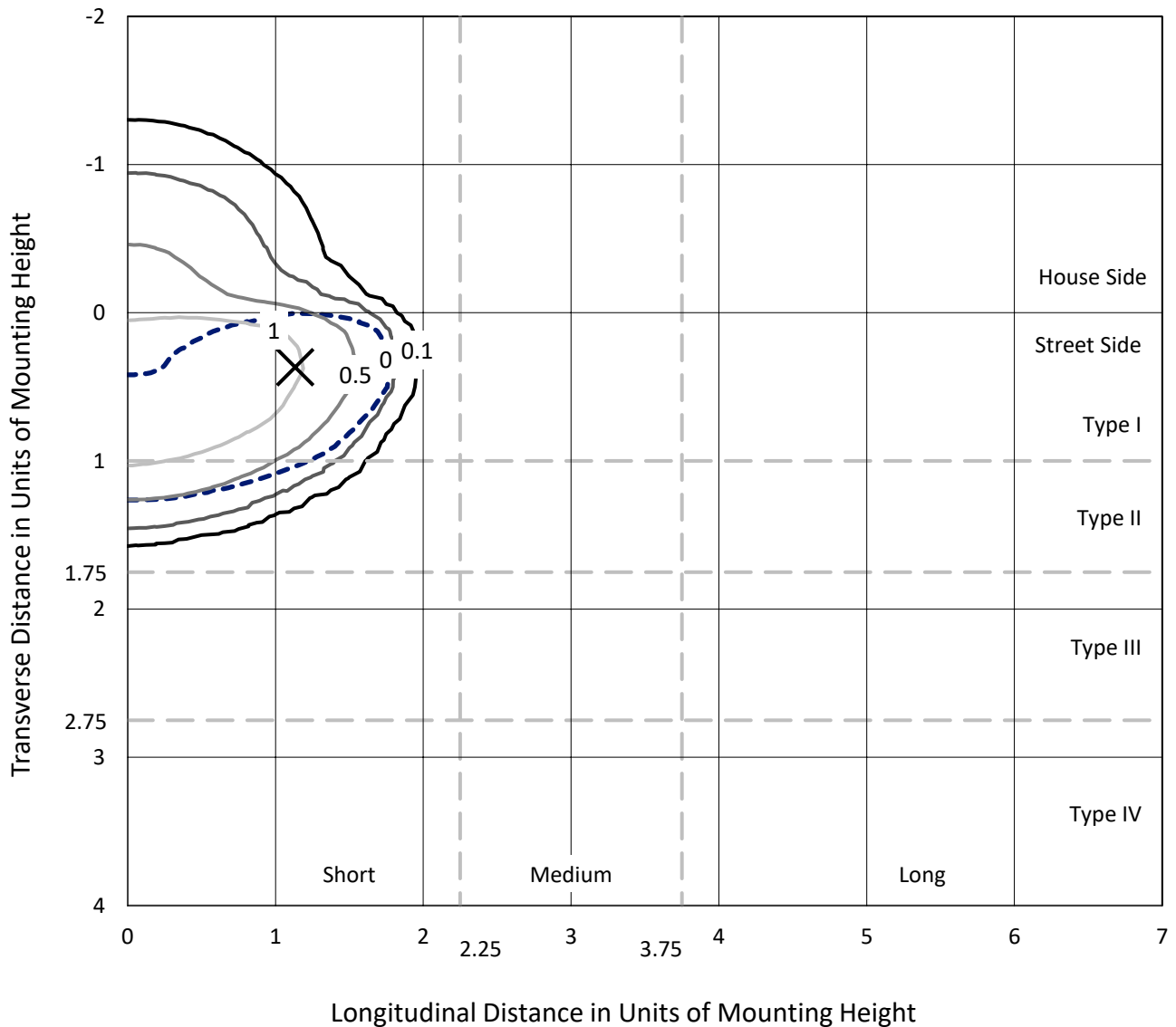
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

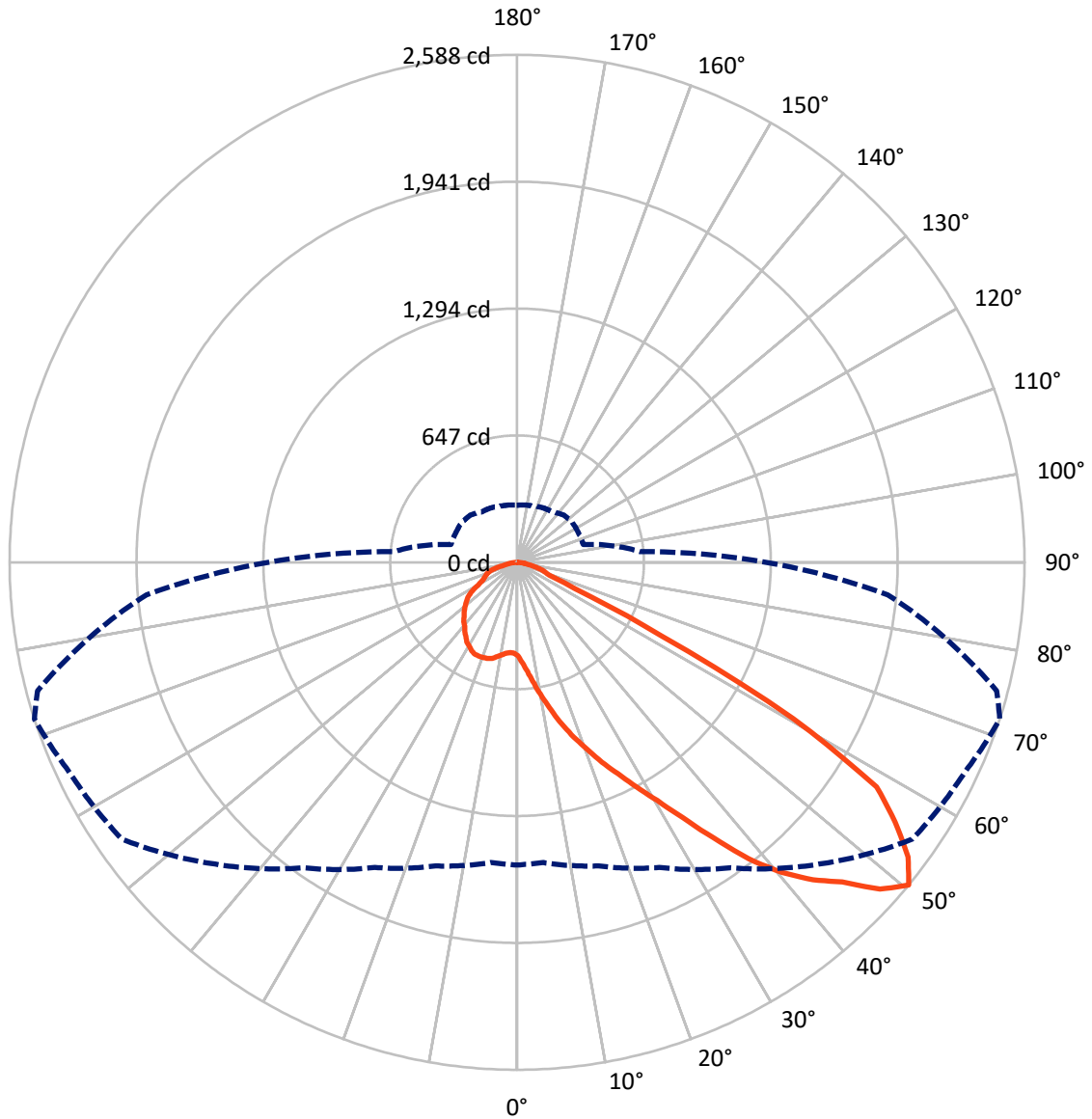
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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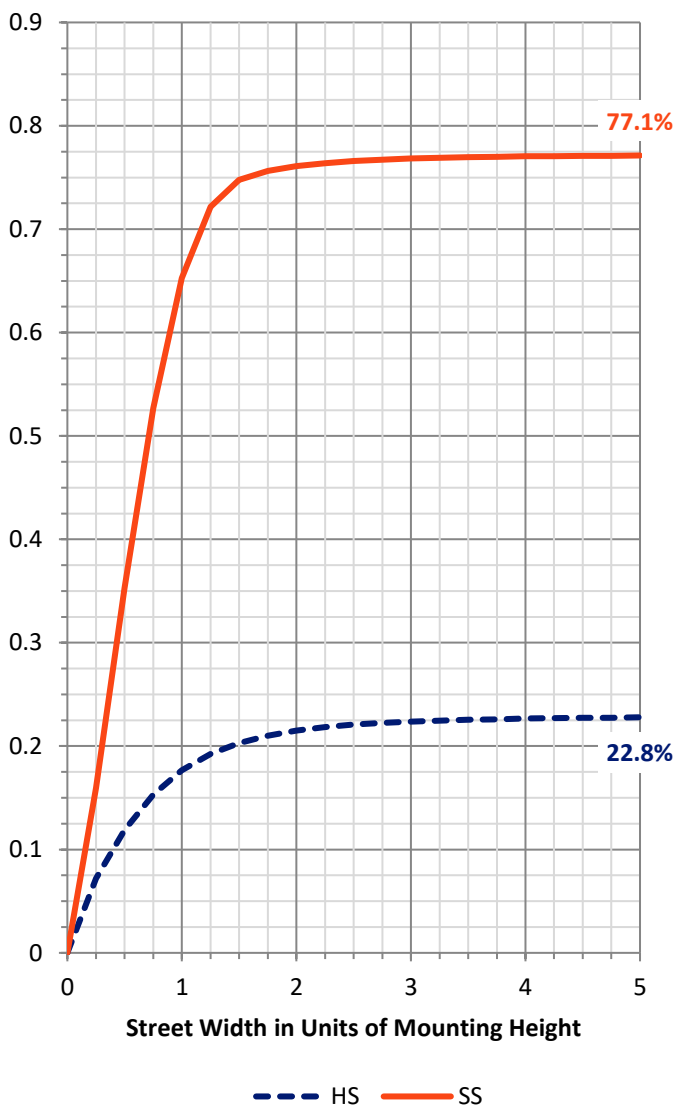
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	783.4	0.0	783.4
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	2636.1	0.0	2636.1
	% Fixture	77.1	0.0	77.1
Total	Lumens	3419.5	0.0	3419.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.0	1.6
10°-20°	209.3	6.1
20°-30°	405.9	11.9
30°-40°	672.4	19.7
40°-50°	940.8	27.5
50°-60°	793.7	23.2
60°-70°	241.9	7.1
70°-80°	84.9	2.5
80°-90°	14.8	0.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3419.5	100.0
0°-180°	3419.5	100.0

Coefficient of Utilization

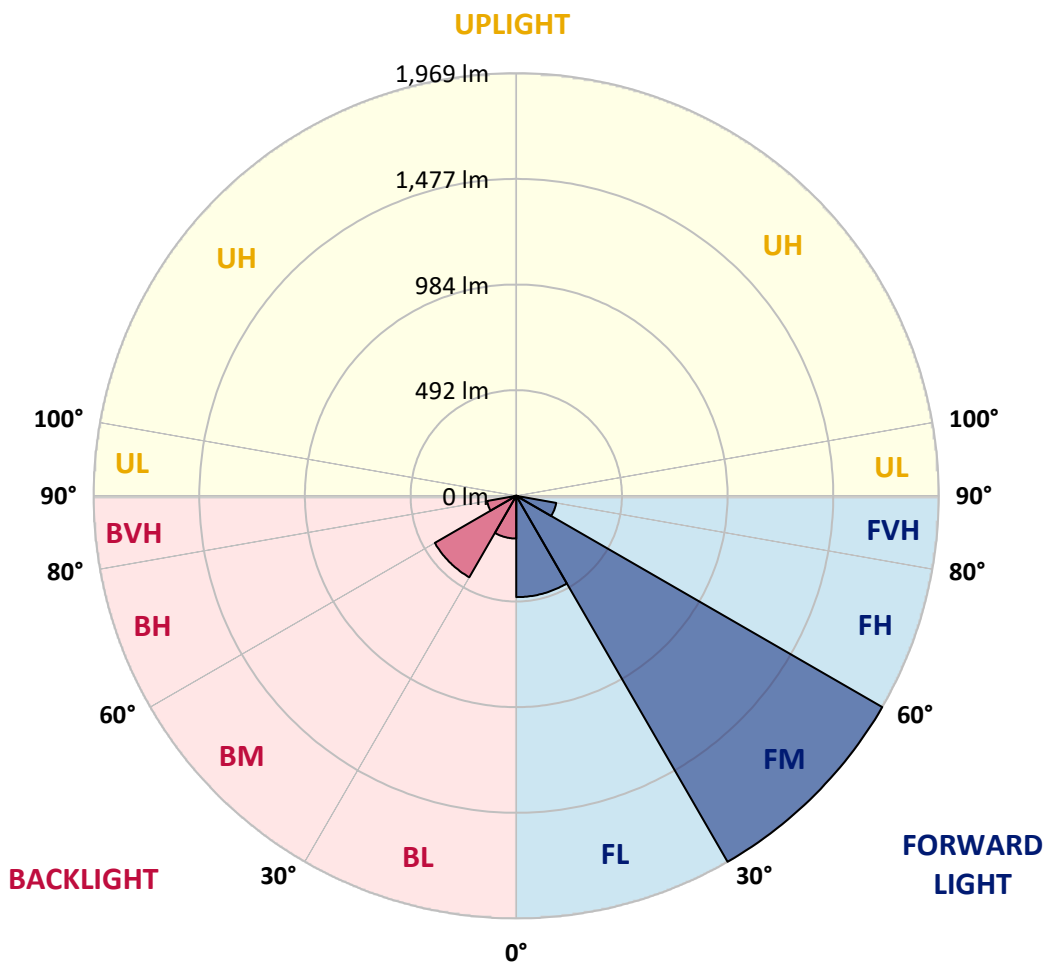


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	472.0	13.8			
FM (30°-60°)	1968.7	57.6			
FH (60°-80°)	188.7	5.5			G0/660
FVH (80°-90°)	6.6	0.2			G0/10
BL (0°-30°)	199.2	5.8	B1/500		
BM (30°-60°)	438.1	12.8	B1/1000		
BH (60°-80°)	138.0	4.0	B1/500		G1/500
BVH (80°-90°)	8.1	0.2			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	476.0	476.0	476.0	476.0	476.0	476.0	476.0	476.0	476.0	476.0	476.0
2.5°	612.2	608.5	597.0	593.2	579.7	555.1	546.6	521.8	511.2	501.4	490.0
5°	774.3	756.6	755.3	733.7	702.4	684.2	630.1	593.7	560.2	543.3	512.0
7.5°	877.6	878.0	878.0	860.3	835.3	789.1	740.5	674.9	624.5	599.5	546.2
10°	975.7	967.3	962.6	960.9	944.0	899.2	847.1	765.9	696.9	667.7	572.0
12.5°	1045.1	1038.0	1048.6	1043.0	1030.7	1001.5	952.4	859.8	773.5	734.1	613.5
15°	1078.2	1083.2	1091.7	1106.9	1101.4	1090.4	1036.3	956.3	856.0	811.6	650.3
17.5°	1129.0	1114.9	1125.1	1144.2	1159.4	1154.3	1123.4	1026.1	937.6	883.0	699.9
20°	1164.4	1156.5	1161.5	1183.5	1194.9	1223.7	1207.6	1117.5	1015.9	958.4	758.2
22.5°	1266.0	1254.2	1237.7	1241.1	1245.3	1265.6	1269.4	1217.8	1106.9	1046.0	813.7
25°	1391.3	1380.2	1360.8	1340.9	1328.6	1324.8	1337.9	1296.5	1194.1	1131.1	873.4
27.5°	1529.2	1510.6	1498.3	1457.3	1424.2	1419.2	1412.9	1390.4	1297.3	1229.2	940.7
30°	1663.3	1648.5	1632.0	1566.4	1532.1	1526.7	1495.4	1501.7	1409.4	1333.7	1016.8
32.5°	1764.9	1766.2	1728.5	1679.0	1646.8	1617.7	1606.2	1624.4	1553.3	1492.4	1101.9
35°	1847.0	1850.8	1814.8	1770.0	1735.2	1755.6	1750.5	1759.0	1725.1	1650.6	1200.9
37.5°	1927.0	1907.9	1869.4	1847.8	1829.6	1863.1	1906.2	1913.4	1919.8	1832.2	1315.9
40°	1940.1	1941.8	1919.3	1934.6	1911.7	1962.1	2062.4	2053.0	2078.9	2002.3	1440.8
42.5°	1921.4	1925.2	1934.1	1955.7	2010.7	2071.2	2220.2	2182.1	2213.4	2145.3	1562.2
45°	1891.0	1875.3	1886.4	1968.4	2063.6	2198.2	2364.5	2334.9	2324.7	2267.6	1706.9
47.5°	1745.4	1761.5	1795.8	1896.9	2039.9	2220.2	2466.9	2460.1	2490.5	2450.3	1838.5
50°	1543.6	1537.3	1603.3	1717.1	1901.6	2177.0	2461.4	2522.7	2588.3	2532.4	1897.3
52.5°	1156.0	1189.8	1246.5	1387.9	1651.1	1941.8	2341.2	2443.6	2496.9	2485.1	1849.9
55°	730.7	740.9	775.1	943.2	1180.1	1558.4	2006.9	2244.3	2339.5	2383.9	1806.4
57.5°	355.0	336.0	377.9	512.8	681.6	1048.1	1547.9	1954.9	2161.8	2242.2	1711.6
60°	185.4	192.5	209.0	257.3	352.5	544.1	964.7	1302.8	1618.9	1742.5	1297.3
62.5°	153.6	156.2	167.1	191.2	234.4	313.1	492.5	635.1	825.5	936.8	738.0
65°	130.4	131.6	143.5	159.5	187.0	220.4	253.5	265.3	321.2	329.6	262.3
67.5°	108.7	110.0	122.7	137.9	155.8	164.6	173.1	172.2	178.5	176.0	175.6
70°	83.8	85.0	98.1	114.2	123.1	118.1	144.3	150.2	152.7	154.8	158.3
72.5°	60.5	63.1	73.2	84.6	80.0	91.8	118.9	127.7	131.2	132.5	136.7
75°	44.0	44.8	47.4	44.0	50.8	63.9	83.8	94.8	99.0	100.2	106.6
77.5°	19.4	19.8	20.4	25.4	32.5	39.8	50.0	58.8	64.8	66.4	68.1
80°	10.2	10.6	13.1	17.3	23.3	29.2	36.4	41.5	45.2	45.7	47.4
82.5°	6.3	6.8	9.3	12.3	16.5	21.6	26.7	30.9	33.9	34.3	34.7
85°	2.9	3.8	5.5	7.7	11.0	14.0	14.4	12.3	13.1	13.5	12.7
87.5°	0.8	1.3	1.7	1.3	1.7	1.7	2.1	2.5	2.5	2.5	2.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	476.0	476.0	476.0	476.0	476.0	476.0	476.0	476.0	476.0	476.0	476.0
2.5°	483.7	479.9	465.0	459.5	445.1	447.7	440.1	439.7	437.9	437.5	437.1
5°	495.5	483.7	465.8	452.3	444.3	443.5	437.9	437.9	439.7	440.9	437.9
7.5°	514.9	501.4	471.4	458.7	451.4	450.2	446.4	443.5	447.2	446.0	442.6
10°	537.4	513.7	482.0	471.0	459.1	456.2	456.2	457.4	451.0	453.2	449.8
12.5°	562.4	530.6	495.5	482.8	468.9	467.2	466.3	457.0	460.4	458.7	450.2
15°	594.1	550.1	512.8	491.2	479.4	471.8	460.8	459.1	457.0	452.7	448.9
17.5°	628.3	571.2	520.9	493.8	476.0	470.5	462.0	453.2	446.8	447.7	444.7
20°	657.6	590.7	523.9	496.4	473.5	462.9	449.8	444.3	437.5	437.1	436.6
22.5°	692.2	617.0	528.1	489.5	465.8	454.9	446.0	436.2	431.6	425.6	428.7
25°	733.7	627.0	528.9	485.8	460.4	440.9	436.2	425.6	423.9	415.5	417.2
27.5°	763.8	632.6	522.2	473.9	447.7	432.9	424.4	416.8	413.9	407.5	405.8
30°	803.9	641.0	507.8	459.1	435.0	418.5	413.4	411.7	403.3	396.4	395.6
32.5°	849.7	646.6	498.5	443.9	421.8	409.1	411.7	403.7	393.1	387.2	385.5
35°	886.1	648.7	475.2	426.6	413.0	404.9	402.0	400.3	385.0	379.5	375.3
37.5°	941.5	644.0	455.7	414.3	403.3	400.3	397.7	386.4	368.9	361.0	355.0
40°	1006.2	642.8	430.8	396.9	393.9	397.3	389.7	372.0	347.8	338.9	334.7
42.5°	1068.4	651.6	415.1	387.6	383.7	385.0	374.5	347.8	336.0	330.8	324.1
45°	1172.5	670.3	389.3	373.2	371.5	370.6	357.9	330.0	323.3	316.9	315.6
47.5°	1266.5	658.0	372.8	358.4	360.1	355.4	328.3	319.5	311.8	305.5	303.3
50°	1271.9	628.8	349.5	347.0	347.4	339.3	313.5	307.6	297.9	293.7	290.7
52.5°	1243.2	581.0	327.9	328.7	330.0	316.9	295.4	291.2	283.1	277.2	275.4
55°	1162.3	506.5	306.8	310.2	313.5	288.5	281.8	271.2	264.9	256.4	256.8
57.5°	1024.0	407.9	277.2	282.7	289.8	262.3	257.3	244.1	234.8	228.1	227.2
60°	686.3	290.2	232.7	234.8	251.0	239.9	239.5	226.4	213.7	207.7	204.4
62.5°	404.9	221.7	201.0	198.9	198.5	204.8	215.4	210.8	194.2	182.8	186.2
65°	212.0	191.7	187.0	179.8	175.6	173.9	181.9	184.1	173.1	160.8	160.0
67.5°	178.1	178.1	174.3	171.8	165.8	158.7	153.6	146.8	145.2	141.7	137.5
70°	162.1	166.3	165.0	159.1	154.0	146.0	132.9	121.9	111.3	107.5	110.0
72.5°	141.3	145.6	145.6	142.6	135.8	123.5	110.8	98.1	89.3	82.5	81.7
75°	108.7	110.8	116.0	112.5	103.7	96.0	82.9	69.8	61.4	55.0	53.7
77.5°	69.4	72.7	72.7	72.3	66.0	58.8	50.4	41.0	34.7	30.0	28.8
80°	46.1	48.3	50.0	48.3	44.0	38.5	32.1	25.8	21.2	17.3	16.5
82.5°	33.9	36.4	37.7	36.0	31.7	27.5	22.9	18.2	13.5	10.6	9.8
85°	13.1	13.5	15.2	18.2	17.7	17.3	14.0	10.2	7.7	5.5	5.0
87.5°	3.4	2.9	3.4	3.4	2.9	2.5	2.5	2.5	2.5	1.3	1.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)